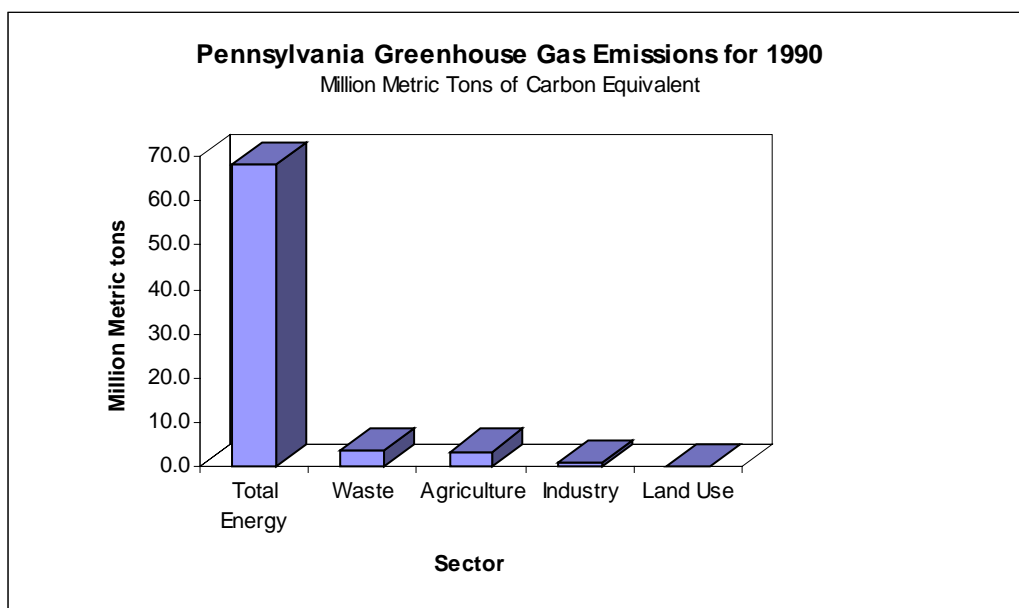


## PENNSYLVANIA GREENHOUSE GAS EMISSIONS AND SINKS INVENTORY: SUMMARY



This report provides a detailed inventory of greenhouse gas emissions and sinks for Pennsylvania in 1990. Emissions were estimated using methods from EPA's 1992 guidance document ***State Workbook: Methodologies for Estimating Greenhouse Gas Emissions***. In 1990, Pennsylvania emitted 76 million metric tons of carbon equivalent (MMTCE). Pennsylvania estimated emissions of 3.5 MMTCE from sources not covered in the workbook methodology.<sup>1</sup> Emissions from these sources are not included in the reported total or the table below.

The principal greenhouse gas was carbon dioxide, comprising 243 million metric tons. Other emissions included 1.3 million metric tons of methane (7.2 MMTCE) and 0.03 million metric tons of nitrous oxide (2.5 MMTCE).

The major source of carbon dioxide emissions was fossil fuel combustion (99%), the majority of which is utility coal. Pennsylvania estimated emissions associated with land use, but did not estimate land use-related sinks, which in most states (and nationally) exceed land use emissions. Contributors to methane emissions were landfills (51%), coal mining and natural gas production (38%), domesticated animals (10%) and manure management (1%). Nitrous oxide emissions were attributable to fertilizer use.

Pennsylvania's emissions in 1990 were 6.39 MTCE per capita, compared to 1990 U.S. emissions of 6.4 MTCE per capita.

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<sup>1</sup> These emissions include carbon dioxide from natural gas venting and flaring, landfills, and combustion of other fuels.

### Pennsylvania Greenhouse Gas Emissions for 1990

SECTOR	CO <sub>2</sub> (MMTCE)	Methane (MMTCE)	Nitrous Oxide (MMTCE)	PFCs (MMTCE)	Total GHG Emissions (MMTCE)
Energy - Residential	6.2	*	*	*	24.9
Energy - Commercial	3.0	*	*	*	12.2
Energy - Industrial	16.8	*	*	*	67.8
Energy - Transport	15.4	*	*	*	62.2
Energy - Utility	24.2	*	*	*	97.7
<b>Total Energy</b>	<b>65.5</b>	<b>2.8</b>	*	*	<b>68.3</b>
<b>Waste</b>	*	<b>3.6</b>	*	*	<b>3.6</b>
<b>Agriculture</b>	*	<b>0.8</b>	<b>2.5</b>	*	<b>3.3</b>
<b>Industry</b>	<b>0.7</b>	*	*	*	<b>0.7</b>
<b>Land Use</b>	<b>0.1</b>	*	*	*	<b>0.1</b>
<b>TOTAL</b>	<b>66.3</b>	<b>7.2</b>	<b>2.5</b>	*	<b>76.0</b>

All emissions are reported in million metric tons of carbon equivalent (MMTCE).

An asterisk ( \* ) indicates that emissions of the gas from this sector were zero, insignificant, or not reported.

Emissions due to coal mining and extraction of natural gas and oil are included in the total energy figures, and emissions from biofuel combustion are excluded.